OIPE IAP5
JAN 09 2006
PATENT & TRADEMARK OFFICE

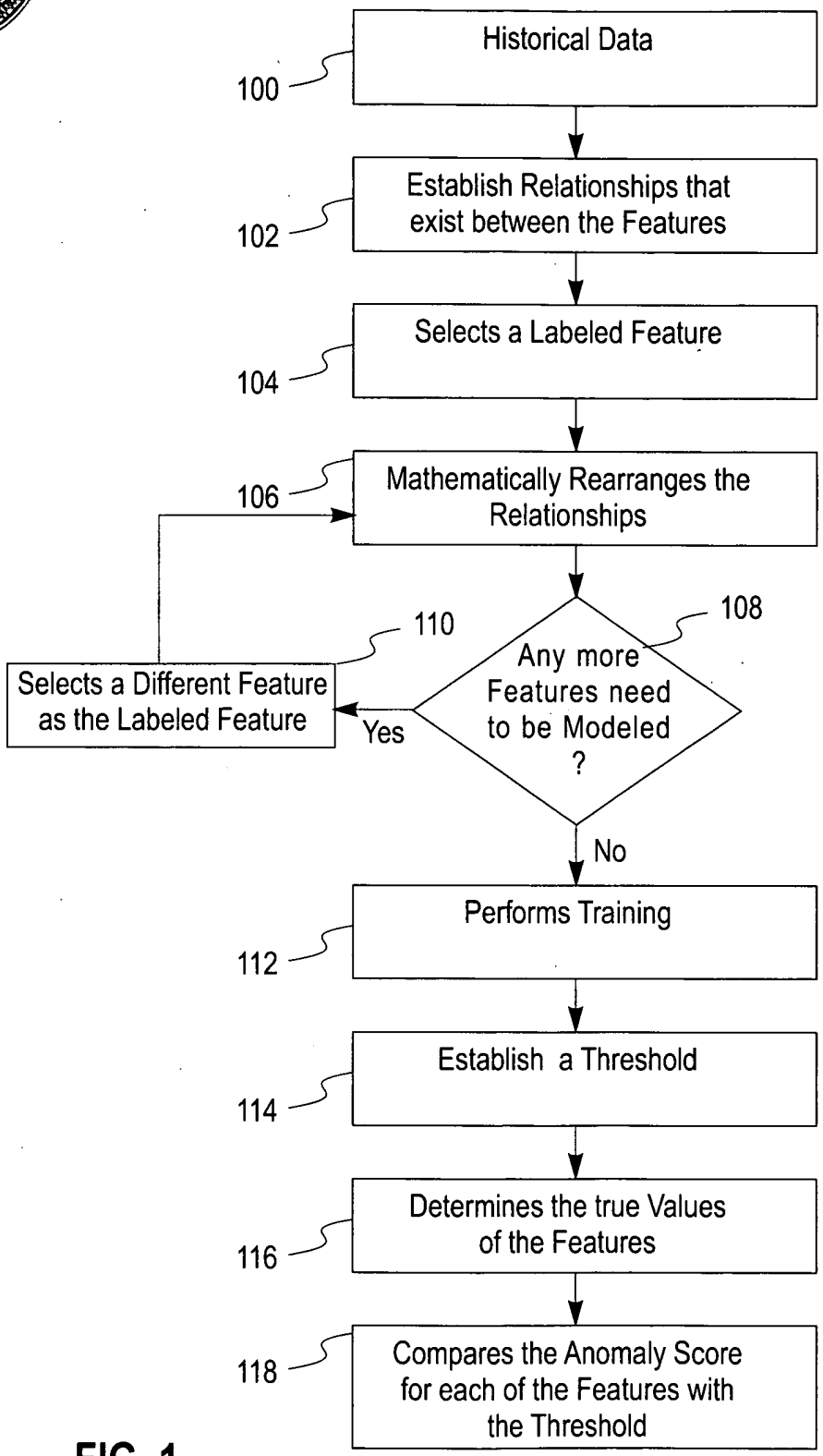

FIG. 1

Table 1. Normal events in the 2-node network example

Reachable?	Delivered?	Cached?
True	True	True
True	False	False
False	False	True
False	False	False

FIG. 2

Delivered?	Cached?	Reachable?	Probability?
True	True	True	1.0
False	False	True	0.5
False	True	False	1.0
True	False	True	0.5

(a) Sub-model with respect to 'Reachable?'

FIG. 3A

Reachable?	Cached?	Delivered?	Probability?
True	True	True	1.0
True	False	False	1.0
False	True	False	1.0
False	False	False	1.0

(b) Sub-model with respect to 'Delivered?'

FIG. 3B

Reachable?	Delivered?	Cached?	Probability?
True	True	True	1.0
True	False	False	1.0
False	False	True	0.5
False	True	True	0.5

(c) Sub-model with respect to 'Cached?'

FIG. 3C

Reachable?	Delivered?	Cached?	Class	AMC	AP
True	True	True	Normal	1	1
True	False	False	Normal	1	0.83
False	False	True	Normal	1	0.83
False	False	False	Normal	0.33	0.67
True	True	False	Abnormal	0.33	0.17
True	False	True	Abnormal	0	0
False	True	True	Abnormal	0.33	0.17
False	True	False	Abnormal	0	0.33

FIG. 4

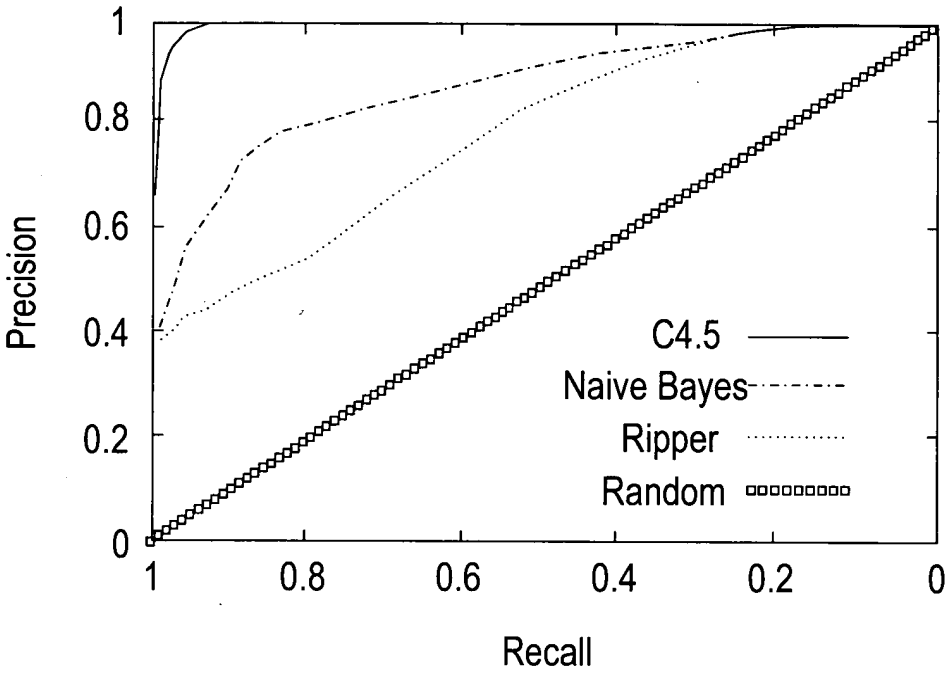
Precision
Recall
1
0.8
0.6
0.4
0.2
0
1
0.8
0.6
0.4
0.2
0
C4.5
Naive Bayes
Ripper
Random

FIG. 5